REMARKS

Claims 1-11 and 13-30 are currently pending in the subject application and are presently under consideration. A version of all pending claims can be found at pages 2-8 of this Reply.

Favorable reconsideration of the subject patent application is respectfully requested in view of the comments herein.

I. Rejection of Claims 1, 9 and 28 Under 35 U.S.C. §103(a)

Claims 1, 9 and 28 are rejected under 35 U.S.C. 103(a) as being obvious over Grosser et al. (U.S. 6,826,552), and in further view of Garg (U.S. 6,044,357). It is respectfully submitted that this rejection should be withdrawn for at least the following reasons. Grosser et al. in view of Garg does not teach or suggest each and every limitation of applicants' claimed invention.

To reject claims in an application under §103, an examiner must establish a prima facie case of obviousness. A prima facie case of obviousness is established by a showing of three basic criteria. First, there must be some suggestion or motivation, either in the references themselves or in the knowledge generally available to one of ordinary skill in the art, to modify the reference or to combine reference teachings. Second, there must be a reasonable expectation of success. Finally, the prior art reference (or references when combined) must teach or suggest all the claim limitations. See MPEP §706.02(j). The teaching or suggestion to make the claimed combination and the reasonable expectation of success must both be found in the prior art and not based on applicant's disclosure. See In re Vaeck, 947 F.2d 488, 20 USPQ2d 1438 (Fed. Cir. 1991).

The subject invention relates to methods and systems for identifying a sub-population of a population to solicit and a sub-population of the population not to solicit that will maximize profits for an advertiser performing solicitation. For instance, applicants' claimed invention can take a sample of a population of potential purchasers, divide the sample into a solicitation group and a non-solicitation group, and solicit the solicitation group. Tracking of purchases and non-purchases by members of each group allows for a model to be constructed that can be used against the entire population to identify a sub-population to solicit and a sub-population not to solicit that will maximize profits. Applicants' claimed invention minimizes solicitation of

members who will not make a purchase, who are already planning on buying, and/or who planned on buying but will not buy if solicited, thereby reducing cost of solicitation. The method also increases solicitation to a subset of members who will buy if solicited, thereby maximizing purchases. In particular, as recited in independent claims 1 and 28, applicants' claimed invention employs a computer-implemented component to identify the sub-population to solicit and a non-solicited sub-population by using a computer-implemented decision theoretic model ... setting a solicitation variable to a first value for each of a plurality of members of the solicitation sub-population and to a second value for each of a plurality of members of the non-solicitation sub-population and sets a purchase variable to a first value for each of the plurality of members of the solicitation and the non-solicitation sub-population that made a purchase and to a second value for each of the plurality of members of the solicitation and the non-solicitation sub-populations that did not make the purchase.

Grosser et al. does not teach or suggest the aforementioned novel aspects of applicants' claimed invention. Rather, Grosser et al. discloses a computer aided decision making system that assists a user in making a decision regarding large purchases, such as a home or automobile. Applicants' claimed invention is focused on aiding a seller/advertiser in making a decision on which members of a group of potential buyers should be sent a solicitation/advertisement. The cited reference is focused on aiding a buyer in making a purchase decision concerning several purchase options. The system of Grosser et al. will employ a search engine to seek out purchase proposals that meet a user's requirements. The system further allows the user to solicit input from one or more advocates (family member, friend, etc.) on proposals. The system allows advocates who are not solicited to provide input. These advocates provide their opinions on the proposals, but are not themselves making purchases. The user is then able to evaluate the proposals and the feedback from advocates, and reject proposals. The Examiner cites column 5, lines 33-40 of the cited reference as teaching the setting a solicitation variable to a first value for each of a plurality of members of the solicitation sub-population and to a second value for each of a plurality of members of the non-solicitation sub-population. This section of the cited reference says "Through advocates 101, computer-aided decision-making system 100 conveys to the user information useful to the decision-making context from a particular point of view. Relatively large differences between one or more attribute values of proposals in the user's "short list" of choices and the corresponding attribute values associated with new user choice inputs

may trigger an unsolicited advocate 101 opinion." This section merely states that one of the advocates may provide unsolicited advice if they see a large difference between the purchase proposals in the user's short list of proposals and associated attributes. The Office Action asserts that the attributes, which are associated with the short list, represent the variables used to indicate which advocate will produce an unsolicited opinion. Advocates may use this information to decide if they are going to provide unsolicited information. However, these attributes are associated with the proposal, not the advocate, and provide no indication of which advocate will provide unsolicited advice and which advocate will not provide unsolicited advice. The Office Action further asserts that the user's input of new user choices represents the second value of non-solicitations. This section, as well as elsewhere in the cited reference simply means that the user is able to add or remove proposals from their short list and has nothing to do with indicating advocates that are not solicited. The cited reference does not state that any variables are set for each member to indicate which members are solicited or unsolicited. The Office action further cites col. 5, lines 48-52, which states, "Further, the user may provide value parameters via user input to the Requirements facet for computer-aided decision-making system 100 to use, in conjunction with other information, in triggering an advocate response to the user" as evidence of variables. These are merely purchase parameters that the user enters into the system to indicate their requirements for this purchase. These parameters are not associated with the advocates.

Moreover, the Examiner cites col. 5, lines 48-52 and col. 10, lines 26-44 as teaching setting a purchase variable to a first value for each of the plurality of members of the solicitation and the non-solicitation sub-population that made a purchase and to a second value for each of the plurality of members of the solicitation and the non-solicitation sub-populations that did not make the purchase. On the contrary, Grosser et al. describes the user interface providing a means for the user to enter their purchase requirements, so that advocates can provide advice and a report screen that tracks which proposals the user is still considering and which have been rejected. The Office Action appears to suggest that the proposals still being considered and the ones that are rejected represent the purchase variable. However, this interface is merely providing information about the status of the proposal and does not provide any purchase variable associated with a member who is solicited and a member who is not solicited. Grosser et al. does not teach a user of the system sending solicitations to potential buyers and then setting

a purchase variable to a first value for those potential buyers that made a purchase and setting the purchase variable to a second value for those potential buyers that did not make a purchase as in applicants' claimed invention. Rather, the reference discloses sending solicitations to advocates for feedback and does not set any solicitation variable or purchase variable for each advocate. Grosser et al. is not concerned with purchase decisions of advocates, but is concerned with gathering input from the advocates so that the user of the system can make a purchase decision. Therefore, Grosser et al. does not teach or suggest setting a solicitation variable to a first value for each of a plurality of members of the solicitation sub-population and to a second value for each of a plurality of members of the non-solicitation sub-population and sets a purchase variable to a first value for each of the plurality of members of the solicitation and the non-solicitation sub-population that made a purchase and to a second value for each of the plurality of members of the solicitation and the non-solicitation sub-populations that did not make the purchase as in applicants' claimed invention. In addition, Garg is silent regarding setting either a solicitation or purchase variable for each member of a population as taught in the subject claim. Garg discloses evaluating marketing strategies, but employs aggregated demand variables for a population for tracking success.

Furthermore, Grosser et al. and Garg do not teach or suggest identifying the subpopulation to solicit and a non-solicited sub-population by using a computer-implemented
decision theoretic model. Applicants' claimed invention teaches a system that identifies a subpopulation to solicit and a sub-population not to solicit by employing a decision theoretic model.
The model identifies the solicited and non-solicited sub-populations based upon how solicitation
will maximize profits for the advertiser. Neither of the cited references is concerned with trying
to identify the sub-population to solicit and the sub-population not to solicit. Grosser et al. is
concerned with assisting a buyer in determining where to purchase from multiple proposals
possibly from a variety of sellers. The cited reference simply teaches soliciting advocates for
feedback concerning purchase proposals, not for the advocates to make a purchase. Grosser et
al. does not identify the solicited and non-solicited populations by employing a decision theoretic
model. Rather, the reference discloses that the user of the system chooses which advocates to
solicit for feedback. Moreover, Garg discloses a model to maximize profits through
management of marketing, operations, and finance activities, however, Garg fails to teach or
suggest the a decision theoretic model is employed to identify the solicited and non-solicited

populations. Therefore, contrary to assertions in the Office Action, Grosser et al. and Garg do not teach or suggest identifying the sub-population to solicit and a non-solicited sub-population by using a computer-implemented decision theoretic model, as claimed.

In view of at least the foregoing, applicants' representative respectfully submits that Grosser et al. and Garg, alone or in combination, fail to teach or suggest all limitations of applicants' invention as recited in independent claims 1 and 28 (and claim 9 that depends there from), and thus fails to make obvious the subject claims. Therefore, this rejection should be withdrawn.

II. Rejection of Claims 2-8, 11, 13-27, 29, 30 Under 35 U.S.C. §103(a)

Claims 2-8, 11, 13-27, 29, 30 are rejected under 35 U.S.C. 103(a) as unpatentable over Grosser et al., in further view of Garg as applied to claim 1 above, and further in view of Kohavi (U.S. 6,182,058). It is respectfully submitted that this rejection should be withdrawn for at least the following reasons. Grosser et al. in view of Garg and Kohavi does not teach or suggest each and every limitation of applicants' claimed invention.

Independent claims 11 and 24 (similarly to independent claims 1 and 28) recite setting the solicitation variable to the first value for each of a plurality of members of the solicitation group and to the second value for each of a plurality of members of the non-solicitation group; setting the purchase variable to the first value for each of the plurality of members of the solicitation and the non-solicitation groups that made a purchase and to the second value for each of the plurality of members of the solicitation and the non-solicitation groups that did not make the purchase;... applying the decision tree against the population to identify the sub-population to solicit. As discussed supra with respect to independent claims 1 and 28, Grosser et al. and Garg fail to teach or suggest these novel features of the subject claims. Furthermore, Kohavi fails to make up for the deficiencies of Grosser et al. and Garg with respect to these claimed features.

Kohavi discloses a hybrid classifier, called the NB-Tree classifier, for classifying a set of records. In an example, Kohavi discloses a marketing campaign where responses are tracked to determine who is likely to respond. However, Kohavi fails to teach or suggest a solicitation variable that is set to the first value for each of a plurality of members of the solicitation group and to the second value for each of a plurality of members of the non-solicitation group. Kohavi

does not indicate that unsolicited members are tracked and therefore would not need to set a solicitation variable. Furthermore, Kohavi also fails to teach a purchase variable that is set with a first value for purchase and a second value for non-purchase. A likeliness to respond is not analogous to a purchase. A recipient of the marketing campaign may respond, such as to request more information or look at a product, without ever making a purchase. Moreover, Kohavi fails to mention purchase or buy anywhere in the patent.

Therefore, Grosser et al., Garg and Kohavi do not teach or suggest setting the solicitation variable to the first value for each of a plurality of members of the solicitation group and to the second value for each of a plurality of members of the non-solicitation group and setting the purchase variable to the first value for each of the plurality of members of the solicitation and the non-solicitation groups that made a purchase and to the second value for each of the plurality of members of the solicitation and the non-solicitation groups that did not make the purchase;... and applying the decision tree against the population to identify the sub-population to solicit to maximize the expected increase in profits as in applicants' claimed invention.

Claims 2-8 and 29-30 depend from independent claims 1 and 28 respectively. As discussed above with respect to independent claims 11 and 24, Kohavi fails to cure the above noted deficiencies of Grosser et al. and Garg regarding independent claims 1 and 28.

In view of at least the above, it is respectfully submitted that Grosser et al., Garg and Kohavi, alone or in combination, fail to teach or suggest all aspects of applicants' invention as recited in independent claims 1, 11, 24, and 29 (and claims 2-8, 13-23, and 25-27 that depend there from), and thus fails to make obvious the subject claimed invention. This rejection should be withdrawn.

IV. Rejection of Claim 10 Under 35 U.S.C. §103(a)

Claim 10 is rejected under 35 U.S.C. 103(a) as being unpatentable over Grosser et al., in further view of Garg, as applied to claim 1 above, and further in view of Cooper et al. (U.S. 5,737,416). It is respectfully submitted that this rejection should be withdrawn for at least the following reasons. The cited references, alone or in combination, do not teach or suggest each and every feature of applicants' claimed invention.

Claim 10 depends from independent claim 1. Cooper et al. fails to cure the above noted deficiencies of Grosser et al. and Garg with respect to independent claim 1. Cooper et al.

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discloses a system for allowing a producer of software to provide a trial period for use of the software when a potential buyer initiates a request for said software, while maintaining security over the files to prevent piracy. Cooper et al. fails to teach or suggest solicitation and nonsolicitation sub-populations and maintaining a solicitation and purchase variable for members of each group. Cooper et al. is silent regarding setting a solicitation variable to a first value for each of a plurality of members of the solicitation sub-population and to a second value for each of a plurality of members of the non-solicitation sub-population; setting a purchase variable to the first value for each of the plurality of members of the solicitation and the non-solicitation groups that made a purchase and to the second value for each of the plurality of members of the solicitation and the non-solicitation groups that did not make the purchase;... and applying the decision tree against the population to identify the sub-population to solicit, as claimed.

Accordingly, withdrawal of this rejection is respectfully requested.

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CONCLUSION

The present application is believed to be in condition for allowance in view of the above comments. A prompt action to such end is earnestly solicited.

In the event any fees are due in connection with this document, the Commissioner is authorized to charge those fees to Deposit Account No. 50-1063 [MSFTP282US].

Should the Examiner believe a telephone interview would be helpful to expedite favorable prosecution, the Examiner is invited to contact applicants' undersigned representative at the telephone number below.

Respectfully submitted,

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